

FROM :

PHONE NO. :

Feb. 01 1996 10:55PM P4

FROM : USDA RUS

2222052321

1996.12-12

10:17

#400 P.05/07

9. What would the implications of having a greater level of bandwidth be?

UNKNOWN

10. Do you have e-mail? No \_\_\_\_\_ Yes X

11. Do you have Internet access? No \_\_\_\_\_ Yes X

If yes, do you incur long-distance charges by using it?

OFFICE — No X Yes X

Please estimate your number of hours of internet use per month:

HOME 15 MIN = 25-100 A MO

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis)? for which you use it:

A PART OF OUR GRANT TO MISSOURI SCHOOLS  
IS TO LINK DISCHARGED PATIENTS TO HOSPITAL  
THERAPIST.

WE WILL DO THIS WITH MISSOURI H.S. HISTES ON  
FRONT PAGE USING VISUAL CU SEE WE  
COMPONENT FOR FOLLOW UP THERAPY.

## TELEMEDICINE USER SURVEY

## 1. Name of project:

Building an Integrated Patient Information System

## 2. Please list each of the project's sites:

Name of Site:

State in which it is located:

Mid-Michigan Regional Medical Center	Midland	MI
MRMC - Clare	Clare	MI
MRMC - Gladwin	Gladwin	MI
Medical Offices Building	Clare	MI
Harrison Medical Clinic	Harrison	MI
Gladwin Pines Nursing Home	Gladwin	MI
Visiting Nurse Assn.	-various-	MI

Please answer the following questions for each of your sites. Use additional sheets if necessary.

## 3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: Saginaw, MI Distance from city boundary: 25 mi. from Midland  
55 mi. from Clare  
60 mi. from Gladwin

## 4. Name of the project's telecommunications service provider:

Ameritech

## 5. Level of telecommunications service the project is currently using: (For example: grade, 144 Kbps (ISDN), 384 Kbps, T-1 or equivalent, or higher rate)

T-1

## 6. Charges for telecommunications service:

Is there a monthly charge? No

Yes X

If yes, how much is the charge?

\$850Clare to Midland850Gladwin to Midland

Date	12/16/96	Page	3
From	Harlan Goodrich		
Co.	METS		
Phone #	517/839-8345		
Fax #	517/839-1399		

Post-It Fax Note

7671

To

Dr. E. E. E. E. E.

Co./Dept.

RUS

Phone #

Fax #

Is there a usage-based charge? No X Yes \_\_\_\_\_

If yes, how much is the charge? \_\_\_\_\_

Is there a distance component (such as a per-mile fee) of the charge?

No \_\_\_\_\_ Yes X

If yes, how much is the charge? \$600/month to Clene; \$600/mo. to Gladwin

Was there an installation fee? No \_\_\_\_\_ Yes X

If yes, how much is the charge? \$1,500 for Clene site  
2500 for Gladwin site

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider? Tariffed X Discount \_\_\_\_\_

If there is a discount, how much is it? \_\_\_\_\_

7. How does the project use telecommunications in the delivery of health care? (For example -- to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)

Project not yet operational. Pilot programs for tele:  
psychiatry, radiology and home care are planned.

8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would be the impact if the health care activities for which you now use telecommunications took twice as long, or if they could be completed in half the time?)

Our planned uses are time sensitive. Faster transmission  
times will improve customer satisfaction. Clinical  
benefit for faster transmission may include quicker  
diagnosis and treatment.

9. What would the implications of having a greater level of bandwidth be?

With video conferencing modalities such as tele-radiology and psychiatry - greater bandwidth equates to near-real-time image transfer with smooth video. This could expedite diagnosis and onset of treatment.

10. Do you have e-mail? No \_\_\_\_\_ Yes X

11. Do you have Internet access? No \_\_\_\_\_ Yes X

If yes, do you incur long-distance charges by using it?

No X Yes \_\_\_\_\_

Please estimate your number of hours of internet use per month:

100 hours per month

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis)? for which you use it:

Access MIDA, access wide variety of computer technical and research services. Access medical services such as Grateful MED. Medical residents will need Internet access 1/1/97 for national searches.



#8

## ARIZONA TELEMEDICINE PROGRAM

**Ronald S. Weinstein, M.D.**  
Director  
(520) 626-4785  
FAX (520) 626-1027



**Richard A. McNeely**  
Co-Director  
(520) 626-7343  
FAX (520) 626-2145

December 16, 1996

FAX Memo  
(4 pages)

To: Orren E. Cameron, III  
Rural Utilities Service

From: Rick McNeely  
Arizona Telemedicine Program

Here is our response to the FCC Survey we received from RUS on December 12<sup>th</sup>.  
Please let me know if I can provide any additional information. Thank you.

Is there a usage-based charge? No ☒ Yes ☐  
If yes, how much is the charge? \_\_\_\_\_

Is there a distance component (such as a per-mile fee) of the charge?

No ☐ Yes ☒

If yes, how much is the charge? \$15.05/mile/month

Was there an installation fee? No ☐ Yes ☒

If yes, how much is the charge? \$626.50

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider? Tariffed ☒ Discount ☐

If there is a discount, how much is it? NONE

7. How does the project use telecommunications in the delivery of health care? (For example -- to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)

This project will establish a teleconsult and tele-  
diagnostic capability for numerous specialty areas.  
It will also support local emergency room staff in  
handling emergency medical situations. It will also  
facilitate clinical rotations of medical students  
and residents in the rural clinics, and the participation  
of preceptors in the Rural Family Practice Residency  
Training Program.

8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would be the impact if the health care activities for which you now use telecommunications took twice as long, or if they could be completed in half the time?)

Project services could be marginally delivered with less  
bandwidth. Video quality would be degraded to  
the point if possibly being clinically useless. And  
transfer time for large, high-resolution images,  
such as those for Radiology or Pathology would be  
excessive, creating a work backlog at the rural site.

9. What would the implications of having a greater level of bandwidth be?

Better diagnostic quality video and rapid transfer  
of imaging and store and forward files

10. Do you have e-mail? No ☐ Yes ☒

11. Do you have Internet access? No ☐ Yes ☒

If yes, do you incur long-distance charges by using it?

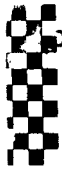
No ☒ Yes ☐

Please estimate your number of hours of internet use per month:

ROUGH ESTIMATE FOR THIS SITE: 80 HRS/MO.

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis)? for which you use it:

Accessing database components of the Arizona Health  
Information Network (AZHIN) which include  
MEDLINE, CINAHL, IPA & PsychINFO



#9

**DAKOTA TELEMEDICINE SYTEMS**  
**Medcenter One Health Systems**  
**Linton Hospital**  
**Wishak Community Hospital**  
**St. Luke's - Tri State Hospital - Bowman**  
**Standing Rock Hospital - Fort Yates**

DATE: 12-12-96 TIME: \_\_\_\_\_ PAGES: 5

**PLEASE DELIVER TO:**

NAME: Glenda Mathon

COMPANY: USDA/RWZ

FAX #: 202-20-4090 PHONE #: \_\_\_\_\_

**SENT BY:**

**Carla A. Anderson, Telemedicine Coordinator**  
**Medcenter One Health Systems**  
**Telemedicine Department**

**FAX: (701)323-5620**

**PHONE: (701)323-5616**

REGARDING: Telemed Survey

MESSAGE: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**MEDCENTER ONE HEALTH SYSTEMS**  
**Dakota Telemedicine System**  
**P.O. Box 5525 - 300 North 7<sup>th</sup> Street**  
**Bismarck, ND 58506-5525**





Please answer the following questions for each of your sites.  
Use additional sheets if necessary.

3. What is the nearest city of population equal to or greater than 50,00 in your state, and approximately how far are you from its boundary?

Ft Yates - 65

Uinton - 60

Bowman - 180

Washell 90

city: Bismarck Distance from city boundary: \_\_\_\_\_

4. Name of the project's telecommunications service provider:

US West & AT & AT

BEK Consolidated

5. Level of telecommunications service the project is currently using: (For example, voice grade, 144 Kbps (ISDN), 384 Kbps, T-1 or equivalent)

Dedicated T1

6. Charges for telecommunications service: Bowman 3069/mo  
Ft Yates 1260/mo  
Linton 988/mo  
Winwell 1370/mo  
Is there a monthly charge? No ☐ Yes ☒  
If yes, how much is the charge? \_\_\_\_\_

Is there a usage-based charge? No ☒ Yes ☐  
If yes, how much is the charge? \_\_\_\_\_

Is there a distance component (such as a per-mile fee) of the charge? No ☒ Yes ☐  
If yes, how much is the charge? \_\_\_\_\_

Was there an installation fee? No ☐ Yes ☒ 676.00 per site  
If yes, how much was the charge? \_\_\_\_\_

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider? Tariffed ☒ Discount ☐  
If there is a discount, how much is it? \_\_\_\_\_

7. How does the project use telecommunications in the delivery of health care? (For example -- to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)

Specialty consultation - all specialties  
x-ray  
education -  
administrative  
emergency & trauma

\* Have performed over 450 consultations to date. This is just the medical consultations

8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would the be the impact if the health care activities for which you now use telecommunications took twice as long, or if they could be completed in half the time?)

medical consultation - NO less than 3/4 of TI  
Should be used

Administrative  
Continuing education

> yes - could drop to  
1/4 to 1/2 TI if we  
have communication  
capabilities with the  
computer

9. What would the implications of having a greater level of bandwidth be?

NONE - ~~the~~ <sup>the</sup> better resolution, the better  
the utilization of telemedicine.

10. Do you have e-mail? No ☐ Yes ☒

11. Do you have Internet access? No ☐ Yes ☒

If yes, do you incur long-distance charges by using it?

No ☐ Yes ☒

Please estimate your number of hours of Internet use per month:

\$25/month

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis) for which you use it:

Access to grant programs, medical information.

#10

## TELEMEDICINE USER SURVEY

1. Name of project:

Rural Alabama Health Alliance Distance Learning Medical Links  
Grant

2. Please list each of the project's sites:

Name of Site:

State in which it is located:

<u>Fayette Medical Center, Fayette</u>	<u>Alabama</u>
<u>Bobb Medical Center, Centerville</u>	<u>"</u>
<u>Pickens County Hospital, Carrollton</u>	<u>"</u>
<u>DCH Regional Medical Center, Tuscaloosa</u>	<u>"</u>

Please answer the following questions for each of your sites. Use additional sheets if necessary.

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: Tuscaloosa Distance from city boundary: ≈ 50 miles

4. Name of the project's telecommunications service provider:

GTE

5. Level of telecommunications service the project is currently using: (For example: voice grade, 144 Kbps (ISDN), 384 Kbps, T-1 or equivalent, or higher rate)

Voice grade

6. Charges for telecommunications service:

There will be; starts  
next month.

Is there a monthly charge? No

Yes ☒

If yes, how much is the charge?

Unknown

Is there a usage-based charge? No ☒ Yes ☒

If yes, how much is the charge?

*Unknown at current time; Max. is usual long distance charges*

Is there a distance component (such as a per-mile fee) of the charge?

No ☒ Yes ☐

If yes, how much is the charge?

Was there an installation fee? No ☐ Yes ☐

*will be.*

If yes, how much is the charge?

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider? Tariffed ☒ Discount ☐

If there is a discount, how much is it?

7. How does the project use telecommunications in the delivery of health care? (For example -- to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)

*X-ray services, regular basis, as well as  
emergent basis.*

8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would be the impact if the health care activities for which you now use telecommunications took twice as long, or if they could be completed in half the time?)

*We will be upgrading to higher levels of bandwidth  
when fiber optics become available in the area.*

9. What would the implications of having a greater level of bandwidth be?

↓ transmission time; ability to use less compression of images.

10. Do you have e-mail? No ☒ Yes ☐

11. Do you have Internet access? No ☒ Yes ☐

If yes, do you incur long-distance charges by using it?

No ☐ Yes ☐

Please estimate your number of hours of internet use per month:

3 Not yet, 2<sup>nd</sup> phase of project

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis)? for which you use it:



**BASSETT  
HEALTHCARE**  
Research Institute

## ***FAX COVER SHEET***

**TO:** ORREN E. CAMERON III  
RURAL UTILITIES SERVICE

**RECIPIENT'S FAX #:** 202/720-4099

**FROM:** Martha Gorman

**DATE:** 12/17/96

**TIME:** 12:45PM

**NUMBER OF PAGES SENT (Including cover):** 6

*If all pages are not received, please call:*

**Phone #:** (607) 547 - 3048 or 3917

**Fax #:** (607) 547 - 3061

### ***SPECIAL NOTES:***

Mr. Cameron, We have also FAXed a copy of this to the ORHP/HRSA. We are  
FedExing a copy to the FCC for the 12/19 deadline.

**SECVFAX.RI**



**TELEMEDICINE USER SURVEY****1. Name of project:**Bassett Healthcare Telemedicine Network1 Atwell Road, Cooperstown, NY 13326 (hub hospital for this project)**2. Please list each of the project's sites:****Name of Site:****State in which it is located:**

Table 1  
See attached spreadsheet. All sites are located in the State of New York

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**Please answer the following questions for each of your sites. Use additional sheets if necessary.**

See spreadsheet for answers to questions 3, 4, 5, 6 (for Question 6 - There is NO distance component charged at any site); See Table 2 for explanation of Tariffs.

**3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?** see Table 1 (also a map is provided in the response to the FCC)

**City:** \_\_\_\_\_ **Distance from city boundary:** \_\_\_\_\_

**4. Name of the project's telecommunications service provider:**See Table 1

**5. Level of telecommunications service the project is currently using: (For example: voice grade, 144 Kbps (ISDN), 384 Kbps, T-1 or equivalent, or higher rate)**

See Table 1**6. Charges for telecommunications service:**

**Is there a monthly charge?** No \_\_\_\_\_ Yes x  
**If yes, how much is the charge?** see Table 1

Is there a usage-based charge? No \_\_\_\_\_ Yes X

If yes, how much is the charge? See Table 2

Is there a distance component (such as a per-mile fee) of the charge?

No X Yes \_\_\_\_\_

If yes, how much is the charge? \_\_\_\_\_

Was there an installation fee? No \_\_\_\_\_ Yes X

If yes, how much is the charge? See Table 1 Spreadsheet

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider? Tariffed X Discount \_\_\_\_\_

If there is a discount, how much is it? See Table 2

7. How does the project use telecommunications in the delivery of health care? (For example -- to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)  
Uses of the system are expanding as health care providers experience its capabilities. Presently, we are routinely providing:

° Consultation services -- using both still-image and interactive video transmissions

° Transmission of X-rays from the community hospital in Cobleskill to the hub hospital in Cooperstown.

Also:

° Still-image transmission is being implemented between the hub hospital and school-based health clinics in the Villages of Laurens, Morris,

Edmeston, and Delhi

° Still-image and interactive videoconferencing is being phased in for developmental screening between the Upstate Home for Children in Milford and the hub hospital

8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would be the impact if the health care activities for which you now use telecommunications took twice as long, or if they could be completed in half the time?)

We began our project using the lowest possible bandwidths given the unaffordable costs of wider bandwidths. Our project has been effectively using Still-Image transmission which uses just one POTS Line, and dual-switched 56 kbs service between the hub in Cooperstown and spoke sites. Although equipment capability will permit transmission at T1 quality from the hub hospital ER in Cooperstown to/between the ERs in the two community hospitals (Cobleskill and Delhi), we are transmitting at a quarter of a T1 because of usage-based charges. However, we are still charged for a full T1 by AT&T because we cannot get a fractional rate (see Table 1).

**9. What would the implications of having a greater level of bandwidth be?**

Better quality images would result from the use of wider bandwidths. This would expand the use of interactive videoconferencing by providers who are hesitant about using the present system for certain levels of health care delivery. The lower bandwidth is adequate for provider-patient consultations which do not require evaluating ranges of motion (ie, gait) or visible abnormalities (ie, skin lesions). It should be noted that we do not expect to substantially expand the provision of health care services - only to make it easier for the rural population we serve to get their care.

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10. Do you have e-mail? No \_\_\_\_\_ Yes X

11. Do you have Internet access? No \_\_\_\_\_ Yes X

If yes, do you incur long-distance charges by using it?

No \_\_\_\_\_ Yes X

Please estimate your number of hours of internet use per month:

Presently 670 hours/month (50 subscribers)

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12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis)? for which you use it:

WWW, Medlars, Dialog, OCLC, CARLUNCOVER

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Table 1

## Equipment Distribution

Location	Nearest City of Pop ≥ 50,000	Telecom service Provider	Level of Telecom Service In Use	Monthly Charge	Installation Fee
M.I.B.H., Cooperstown	Utica	AT&T	T1, POTS	\$4,087	\$963
O'Connor Hosp., Delhi	Binghamton	AT&T	T1, *, POTS	\$2,516	\$963
BHSC, Cobleskill	Albany	AT&T	T1, *, POTS	\$2,198	\$963
Blenheim HC	Albany	Middleburgh	POTS, #	#	#
Canajoharie HC	Utica	Citizens	POTS, #	#	#
Cherry Valley HC	Utica	NYNEX	2 x 56, POTS	\$810	\$2,462
Cobleskill HC	Albany	NYNEX	2 x 56, POTS	\$267	\$2,675
Delhi HC	Binghamton	Delhi	POTS, #	#	#
Edmeston HC	Utica	NYNEX	2 x 56, POTS	\$156	\$1,227
Gloversville HC	Albany	Citizens	POTS, #	#	#
Hamilton HC	Utica	NYNEX	POTS, #	#	#
Herkimer HC	Utica	NYNEX	2 x 56, POTS	\$175	\$1,104
Upstate Home	Utica	NYNEX	POTS, #	#	#
Liberty HC	New York City	NYNEX	POTS, #	#	#
Morris HC	Utica	Citizens	POTS, #	#	#
Norwich	Binghamton	Citizens	POTS, #	#	#
Oneonta HC	Albany	NYNEX	2 x 56, POTS	\$156	\$1,717
Oneonta S & S	Albany	NYNEX	POTS, #	#	#
Richfield Springs HC	Utica	NYNEX	2 x 56, POTS	\$156	\$1,160
Schoharie HC	Albany	Middleburgh	POTS, #	#	#
Sharon Springs HC	Albany	NYNEX	2 x 56, POTS	\$173	\$1,469
Stamford HC	Binghamton	NYNEX	2 x 56, POTS	\$173	\$1,097
Walton HC	Albany	Citizens	POTS, #	#	#

\* Uses part of T1, carrier does not provide fractional T1 rates.

# These sites have not been activated for videoconferencing yet.

\*\* Monthly Charges given for video only.

12/16/96

Table 2

**Within NY State "Tariff #4" video call charges per minute 112kbs.**

<b>Hours:</b>	<b>AT&amp;T charges:</b>	<b>If calling AT&amp;T to NYNEX no additional charges:</b>	<b>If calling from NYNEX to AT&amp;T add:</b>	<b>If calling from NYNEX to AT&amp;T to NYNEX add:</b>	<b>If calling from NYNEX to NYNEX add .02 cents:</b>
<b>7am to 7pm</b>	0.344	0	0.08	0.16	local phone rates
<b>7pm to 7am</b>	0.314	0	0.08	0.16	local phone rates
<b>Examples:</b>	<b>8am</b>	<b>8am</b>	<b>8am</b>	<b>8am</b>	<b>8am</b>
<b>Exchange</b>	700 to 700	700 to 518	518 to 700	518 to 607	518 to 518
<b>Cost in cents</b>	34.4 per min.	34.4 per min.	50.4 per min.	.75 per min	local phone + .02 per min



DEC-18-96 WED 09:38

FAX NO. 412 647 8222

P. 01

#12



University of Pittsburgh  
Medical Center

*Center for Continuing Education in the Health Sciences*

200 Lothrop Street  
Pittsburgh, PA 15213-2582  
412-647-8232  
Fax: 412-647-8222

**FACSIMILE COVER SHEET**

**DATE:** December 18, 1996

**FAX NO.:** (202) 720-4099

**TO:** Orren E. Cameron, III

**ORGANIZATION:** Rural Utilities Service

**NUMBER OF PAGES TRANSMITTED (INCLUDING COVER SHEET):** 4

**FROM:** Barbara E. Barnes, M.D.

**COMMENTS:**

Attached is the completed Telemedicine User Survey, as requested.

## TELEMEDICINE USER SURVEY

1. Name of project:

RURAL PENNSYLVANIA TELEMEDICINE NETWORK

2. Please list each of the project's sites:

Name of Site:

State in which it is located:

PUNXSUTAWNEY \*PA\* expected to be operational 2/97.

Please answer the following questions for each of your sites. Use additional sheets if necessary.

3. What is the nearest city of population equal to or greater than 50,000 in your state, and approximately how far are you from its boundary?

City: PITTSBURGH Distance from city boundary: 50 miles

4. Name of the project's telecommunications service provider:

Bell Atlantic

5. Level of telecommunications service the project is currently using: (For example: voice grade, 144 Kbps (ISDN), 384 Kbps, T-1 or equivalent, or higher rate)

ISDN6. Charges for telecommunications service: To be determinedIs there a monthly charge? No            Yes           If yes, how much is the charge?

Is there a usage-based charge? No \_\_\_\_\_ Yes \_\_\_\_\_

If yes, how much is the charge? \_\_\_\_\_

Is there a distance component (such as a per-mile fee) of the charge?

No \_\_\_\_\_ Yes \_\_\_\_\_

If yes, how much is the charge? \_\_\_\_\_

Was there an installation fee? No \_\_\_\_\_ Yes \_\_\_\_\_

If yes, how much is the charge? \_\_\_\_\_

Is the charge the regular tariffed rate, or is there a discount from the telecommunications provider? Tariffed \_\_\_\_\_ Discount \_\_\_\_\_

If there is a discount, how much is it? \_\_\_\_\_

7. How does the project use telecommunications in the delivery of health care? (For example -- to send x-rays, distribute public health information, or perform video consultations. Please identify any occasional or episodic uses, such as might result from an outbreak of disease.)

WILL BE UTILIZED TO PROVIDE VIDEO CONSULTATION  
AND CONTINUING EDUCATION

8. Could the project provide the services it is currently providing with less bandwidth? What effect would a lesser level of bandwidth have? (The implications of using greater or lesser levels of telecommunications services are related to image transmission time. What would be the impact if the health care activities for which you now use telecommunications took twice as long, or if they could be completed in half the time?)

TO BE DETERMINED



9. What would the implications of having a greater level of bandwidth be?

*To be determined*

10. Do you have e-mail? No \_\_\_\_\_ Yes \_\_\_\_\_ *Unknown*

11. Do you have Internet access? No \_\_\_\_\_ Yes \_\_\_\_\_ *Unknown*

If yes, do you incur long-distance charges by using it?

No \_\_\_\_\_ Yes \_\_\_\_\_

Please estimate your number of hours of internet use per month:

12. If you have access to the Internet, please list any purposes other than e-mail (such as accessing databases such as Lexis/Nexis)? for which you use it: